

ABSTRACT

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BIOMEDICAL IMPLANT FOR SUSTAINED AGENT RELEASE

A biomedical implant for sustained local delivery of at least one pharmacologically active agent to the duodenum and small intestine of the GI tract. In one embodiment, the implant body comprises and
10 elongate flexible, biodegradable polymeric element that is attached to the wall of the duodenum after introduction through a gastroscope. Biodegradation of the polymeric releases the pharmacologically active agent. Another embodiment of the implant carries transducer means for monitoring at least one physiological parameter of the targeted site, such as the acidity-alkalinity level. The drug-eluting implant body can carry
15 and release agents such antibiotics and antibacterial agents, anti-fungal agents, anti-viral agents, anti-allergenics, anesthetics, analgesics, anti-cancer agents, immunological response modifiers and any other drug for treating irritable bowel syndrome (IBS) or other disorders requiring sustained agent release.